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METHODS AND APPARATUS FOR SIMULTANEOUSLY COMMUNICATING VOICE AND DATA IN AN ANALOG CORDLESS TELEPHONE SYSTEM

ABSTRACT OF THE DISCLOSURE

10 A method of simultaneously communicating voice and data on the same channel in an analog cordless telephone system involves generating an analog signal from an audible voice signal during a cordless telephone call; generating a frequency shift keying (FSK) signal from digital data having a nominal frequency of about 20 KHz; summing the analog signal and the FSK 15 signal to produce a composite analog and digital signal; modulating a radio frequency (RF) carrier with the composite analog and digital signal to produce a modulated RF carrier; and transmitting the modulated RF carrier. On the receiving end, the method involves receiving the modulated RF carrier during the call; demodulating the modulated RF carrier to reproduce 20 the composite analog and digital signal; bandpass filtering the composite analog and digital signal to separate the analog signal and the FSK signal from one another; reproducing the audible voice signal from the analog signal; and detecting the digital data from the FSK signal and processing the digital data for display and control.

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